# **WEST Search History**

DATE: Thursday, March 07, 2002

Set Name side by side	Query	Hit Count	Set Name result set
DB=US	SPT,PGPB; PLUR=YES; OP=ADJ		
L12	L11 and 17	58	L12
L11	110 and (dna or cdna or nucleic acid or polynucleotide)	88	L11
L10	19 and (corynebacteria or corynebacteria glutamicum)	88	L10
L9	transcription regulator or transcriptional regulation	1583	L9
L8	Mike17	0	L8
L7	l6 or l5 or l4 or l3 or l2 or l1	18270	L7
L6	(((536/23.2)!.CCLS.))	3392	L6
L5	(((530/350)!.CCLS.))	6330	L5
L4	(((435/320.1)!.CCLS.))	10584	L4
L3	(((435/252.32)!.CCLS.))	110	L3
L2	(((435/252.3 )!.CCLS. ) )	5229	L2
L1	((435/69.1)!.CCLS.)	7134	L1

END OF SEARCH HISTORY

## WEST

Generate Collection

Print

### Search Results - Record(s) 1 through 10 of 58 returned.

1. Document ID: US 20020028482 A1

L12: Entry 1 of 58

File: PGPB

Mar 7, 2002

PGPUB-DOCUMENT-NUMBER: 20020028482

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020028482 A1

TITLE: NIP45 HUMAN HOMOLOG

Full Title Citation Front Review Classification Date Reference Sequences Attachments Claims KMC Draw, Desc Image

2. Document ID: US 20020028449 A1

L12: Entry 2 of 58

File: PGPB

Mar 7, 2002

PGPUB-DOCUMENT-NUMBER: 20020028449

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020028449 A1

TITLE: 26 Human secreted proteins

Full Title Citation Front Review Classification Date Reference Sequences Attachments Claims KWIC Draw, Desc Image

3. Document ID: US 20020012966 A1

L12: Entry 3 of 58

File: PGPB

Jan 31, 2002

PGPUB-DOCUMENT-NUMBER: 20020012966

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020012966 A1

TITLE: 18 Human secreted proteins

Full Title Citation Front Review Classification Date Reference Sequences Attachments Claims KMC | Draw Desc Image

4. Document ID: US 20020006640 A1

L12: Entry 4 of 58 File: PGPB

Jan 17, 2002

PGPUB-DOCUMENT-NUMBER: 20020006640

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020006640 A1

TITLE: Uteroglobin-like polynucleotides, polypeptides, and

antibodies

Full Title Citation Front Review Classification Date Reference Sequences Attachments Claims KMC Draw, Desc - Image

5. Document ID: US 20020004489 A1

L12: Entry 5 of 58

File: PGPB

Jan 10, 2002

PGPUB-DOCUMENT-NUMBER: 20020004489

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020004489 A1

TITLE: Retinoid receptor interacting polynucleotides, polypeptides,

and antibodies

Full Title Citation Front Review Classification Date Reference Sequences Attachments Draw, Desc Image

KWIC

6. Document ID: US 20010021700 A1

L12: Entry 6 of 58

File: PGPB

Sep 13, 2001

PGPUB-DOCUMENT-NUMBER: 20010021700

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20010021700 A1

TITLE: 49 human secreted proteins

Full Title Citation Front Review Classification Date Reference Sequences Attachments Draw, Desc - Image

KWC

7. Document ID: US 6335157 B1

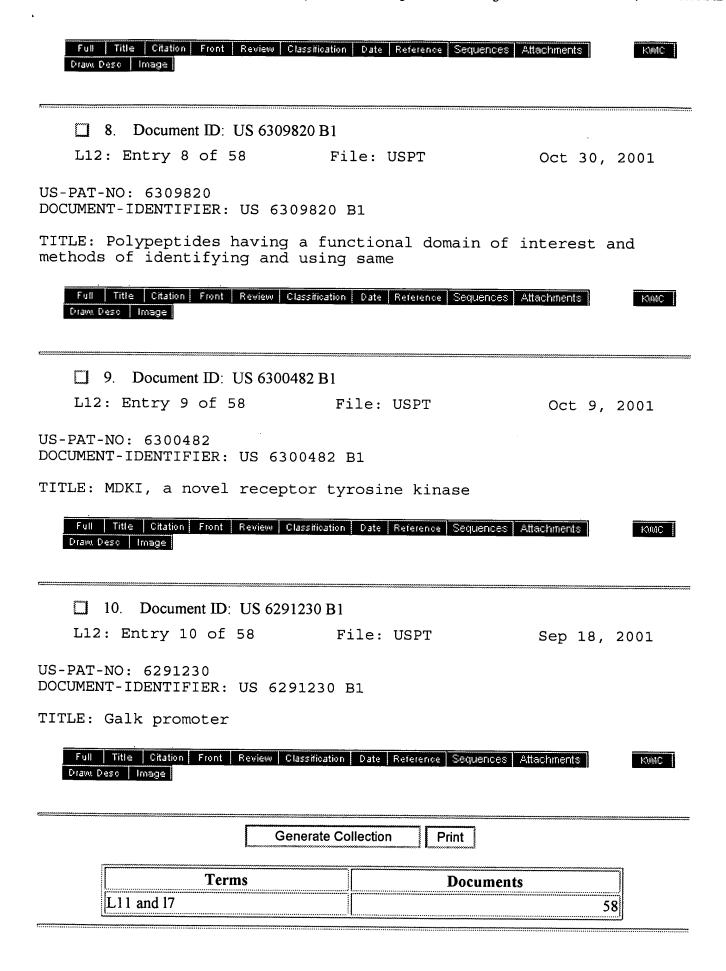
L12: Entry 7 of 58 File: USPT

Jan 1, 2002

US-PAT-NO: 6335157

DOCUMENT-IDENTIFIER: US 6335157 B1

TITLE: Method based on localization of Hsp90 to the centrosome



Display Format: TI Change Format

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Print

### Search Results - Record(s) 11 through 20 of 58 returned.

11. Document ID: US 6221843 B1

L12: Entry 11 of 58

File: USPT

Apr 24, 2001

US-PAT-NO: 6221843

DOCUMENT-IDENTIFIER: US 6221843 B1

TITLE: Human keratins

Full Title Citation Front Review Classification Date Reference Sequences Attachments Draw. Desc Image

12. Document ID: US 6207646 B1

L12: Entry 12 of 58

File: USPT

Mar 27, 2001

US-PAT-NO: 6207646

DOCUMENT-IDENTIFIER: US 6207646 B1

TITLE: Immunostimulatory nucleic acid molecules

Full Title Citation Front Review Classification Date Reference Sequences Attachments Draw, Desc - Image

KWIC

13. Document ID: US 6207148 B1

L12: Entry 13 of 58 File: USPT

Mar 27, 2001

US-PAT-NO: 6207148

DOCUMENT-IDENTIFIER: US 6207148 B1

TITLE: Disease associated protein kinases

Full Title Citation Front Review Classification Date Reference Sequences Attachments Draw, Desc Il Image

KWIC

14. Document ID: US 6201106 B1

L12: Entry 14 of 58

File: USPT

Mar 13, 2001

US-PAT-NO: 6201106

DOCUMENT-IDENTIFIER: US 6201106 B1

TITLE: Cytokine signal regulators



15. Document ID: US 6136779 A

L12: Entry 15 of 58

File: USPT

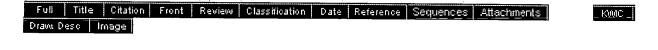
Oct 24, 2000

US-PAT-NO: 6136779

DOCUMENT-IDENTIFIER: US 6136779 A

TITLE: Methods of specifically transcriptionally modulating the

expression of gene of interest



16. Document ID: US H001892 H

L12: Entry 16 of 58

File: USPT

Oct 3, 2000

US-PAT-NO: H001892

DOCUMENT-IDENTIFIER: US H001892 H

TITLE: High volume nutrient based yeast two-hybrid assay for the identification of specific protein:protein interacting inhibitors



17. Document ID: US 6096545 A

L12: Entry 17 of 58

File: USPT

Aug 1, 2000

US-PAT-NO: 6096545

DOCUMENT-IDENTIFIER: US 6096545 A

TITLE: Phosphate starvation-inducible proteins



18. Document ID: US 6071721 A

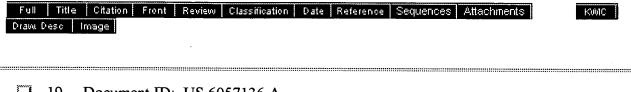
L12: Entry 18 of 58 File: USPT

Jun 6, 2000

US-PAT-NO: 6071721

DOCUMENT-IDENTIFIER: US 6071721 A

TITLE: Calcium binding protein



19. Document ID: US 6057136 A

L12: Entry 19 of 58

File: USPT

May 2, 2000

US-PAT-NO: 6057136

DOCUMENT-IDENTIFIER: US 6057136 A

TITLE: Biotin biosynthesis in Bacillus subtilis



20. Document ID: US 6048718 A

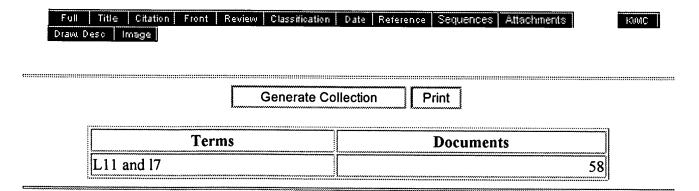
L12: Entry 20 of 58 File: USPT

Apr 11, 2000

US-PAT-NO: 6048718

DOCUMENT-IDENTIFIER: US 6048718 A

TITLE: ATP synthase coupling factor 6



**Change Format** Display Format: TI

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### Search Results - Record(s) 21 through 30 of 58 returned.

21. Document ID: US 6033893 A

L12: Entry 21 of 58

File: USPT

Mar 7, 2000

US-PAT-NO: 6033893

DOCUMENT-IDENTIFIER: US 6033893 A

TITLE: Human cathepsin

Full Title Citation Front Review Classification Date Reference Sequences Attachments Drawi Desc - Image

KWC

22. Document ID: US 6030822 A

L12: Entry 22 of 58

File: USPT

Feb 29, 2000

US-PAT-NO: 6030822

DOCUMENT-IDENTIFIER: US 6030822 A

TITLE: Extracellular signal-regulated kinase, sequences, and

methods of production and use

Full Title Citation Front Review Classification Date Reference Sequences Attachments Draw, Desc Image

KWIC

23. Document ID: US 6020474 A

L12: Entry 23 of 58

File: USPT

Feb 1, 2000

US-PAT-NO: 6020474

DOCUMENT-IDENTIFIER: US 6020474 A

TITLE: ATP synthase subunits

Full Title Citation Front Review Classification Date Reference Sequences Attachments Draw, Desc Image

24. Document ID: US 6020165 A

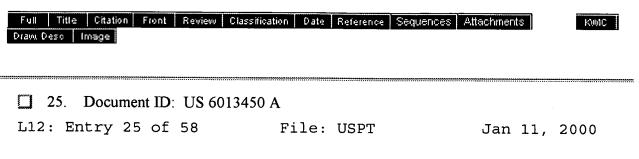
L12: Entry 24 of 58 File: USPT

Feb 1, 2000

US-PAT-NO: 6020165

DOCUMENT-IDENTIFIER: US 6020165 A

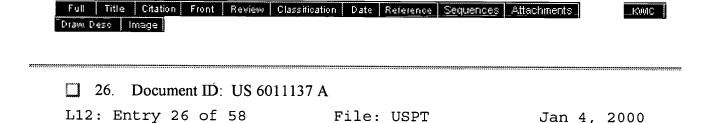
TITLE: Cytikine signal regulators



US-PAT-NO: 6013450

DOCUMENT-IDENTIFIER: US 6013450 A

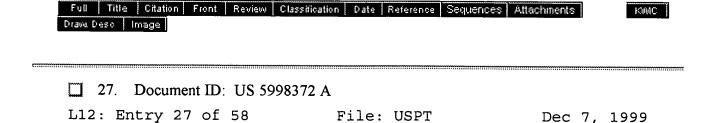
TITLE: CAF1-related protein



US-PAT-NO: 6011137

DOCUMENT-IDENTIFIER: US 6011137 A

TITLE: Identification and isolation of novel polypeptides having WW domains and methods of using same



US-PAT-NO: 5998372

DOCUMENT-IDENTIFIER: US 5998372 A

TITLE: Zinc ring protein



28. Document ID: US 5994081 A

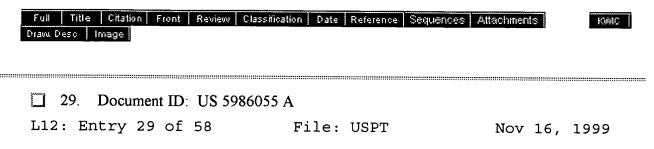
L12: Entry 28 of 58 File: USPT

Nov 30, 1999

US-PAT-NO: 5994081

DOCUMENT-IDENTIFIER: US 5994081 A

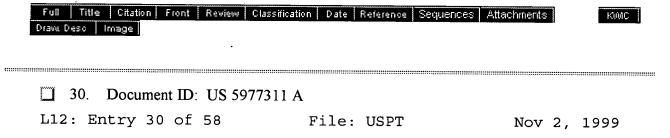
TITLE: Human keratins



US-PAT-NO: 5986055

DOCUMENT-IDENTIFIER: US 5986055 A

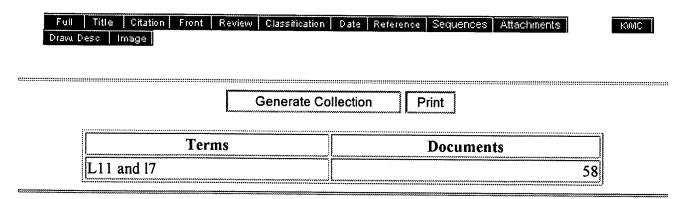
TITLE: CDK2 interactions



US-PAT-NO: 5977311

DOCUMENT-IDENTIFIER: US 5977311 A

TITLE: 53BP2 complexes



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Search Results - Record(s) 31 through 40 of 58 returned.

31. Document ID: US 5976793 A

L12: Entry 31 of 58

File: USPT

Nov 2, 1999

US-PAT-NO: 5976793

DOCUMENT-IDENTIFIER: US 5976793 A

TITLE: Methods of transcriptionally modulating gene expression and of discovering chemicals capable as gene expression modulators

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Draw. Desc | Image

32. Document ID: US 5972660 A

L12: Entry 32 of 58

File: USPT

Oct 26, 1999

US-PAT-NO: 5972660

DOCUMENT-IDENTIFIER: US 5972660 A

TITLE: Human hydroxypyruvate reductase

Full Title Citation Front Review Classification Date Reference Sequences Attachments Draw, Desc Image

KWIC

33. Document ID: US 5965396 A

L12: Entry 33 of 58 File: USPT

Oct 12, 1999

US-PAT-NO: 5965396

DOCUMENT-IDENTIFIER: US 5965396 A

TITLE: Human lymph node derived GTPase

Full Title Citation Front Review Classification Date Reference Sequences Attachments Draw, Desc Image

34. Document ID: US 5962646 A

L12: Entry 34 of 58 File: USPT

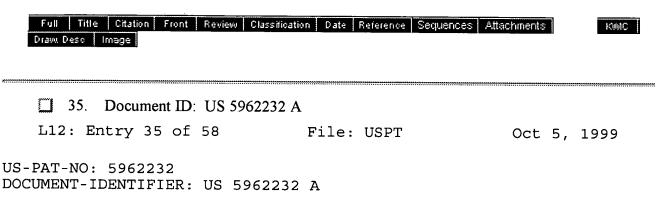
Oct 5, 1999

Sep 21, 1999

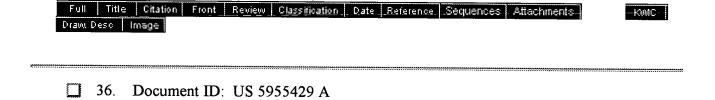
US-PAT-NO: 5962646

DOCUMENT-IDENTIFIER: US 5962646 A

TITLE: ATP synthase Fo subunit



TITLE: Protein kinase molecules



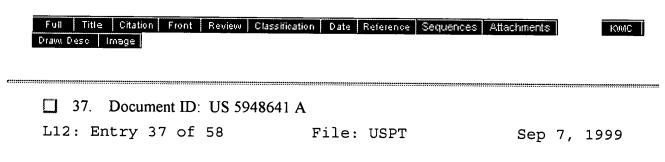
File: USPT

US-PAT-NO: 5955429

DOCUMENT-IDENTIFIER: US 5955429 A

L12: Entry 36 of 58

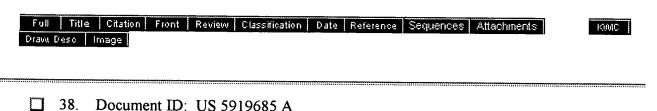
TITLE: Human apoptosis-associated protein



US-PAT-NO: 5948641

DOCUMENT-IDENTIFIER: US 5948641 A

TITLE: <u>Polynucleotides</u> encoding a metal response element binding protein



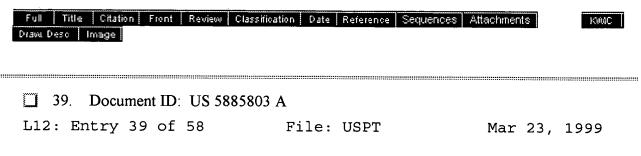
L12: Entry 38 of 58 File: USPT

Jul 6, 1999

US-PAT-NO: 5919685

DOCUMENT-IDENTIFIER: US 5919685 A

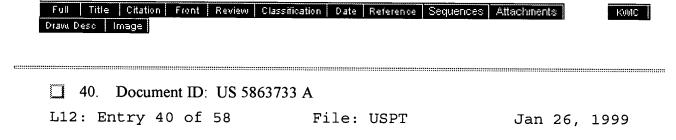
TITLE: Human aflatoxin B1 aldehyde reductase



US-PAT-NO: 5885803

DOCUMENT-IDENTIFIER: US 5885803 A

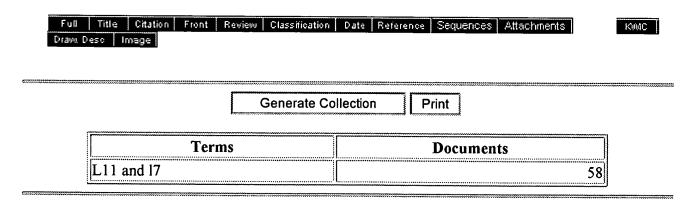
TITLE: Disease associated protein kinases



US-PAT-NO: 5863733

DOCUMENT-IDENTIFIER: US 5863733 A

TITLE: Methods of transcriptionally modulating gene expression and of discovering chemicals capable of functioning as gene expression modulators



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Search Results - Record(s) 41 through 50 of 58 returned.

41. Document ID: US 5861496 A

L12: Entry 41 of 58

File: USPT

Jan 19, 1999

US-PAT-NO: 5861496

DOCUMENT-IDENTIFIER: US 5861496 A

TITLE: Human squalene epoxidase

Full Title Citation Front Review Classification Date Reference Sequences Attachments Draw. Desc | Image

KMC

42. Document ID: US 5861495 A

L12: Entry 42 of 58

File: USPT

Jan 19, 1999

US-PAT-NO: 5861495

DOCUMENT-IDENTIFIER: US 5861495 A

TITLE: Human zinc binding proteins

Full Title Citation Front Review Classification Date Reference Sequences Attachments Drawu Desc - Image

KWIC

43. Document ID: US 5858715 A

L12: Entry 43 of 58 File: USPT

Jan 12, 1999

US-PAT-NO: 5858715

DOCUMENT-IDENTIFIER: US 5858715 A

TITLE: Human apoptosis-associated protein

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments Drawu Desc - Image

KWAC

44. Document ID: US 5858367 A

L12: Entry 44 of 58

File: USPT

Jan 12, 1999

US-PAT-NO: 5858367

DOCUMENT-IDENTIFIER: US 5858367 A

TITLE: Methods for screening for antimicrobials utilizing AarC and

compositions thereof



45. Document ID: US 5849527 A

L12: Entry 45 of 58

File: USPT

Dec 15, 1998

US-PAT-NO: 5849527

DOCUMENT-IDENTIFIER: US 5849527 A

TITLE: Polynucleotides encoding ATP synthase coupling factor 6



46. Document ID: US 5840535 A

L12: Entry 46 of 58

File: USPT

Nov 24, 1998

US-PAT-NO: 5840535

DOCUMENT-IDENTIFIER: US 5840535 A

TITLE: DNA encoding a zinc ring protein



47. Document ID: US 5831052 A

L12: Entry 47 of 58

File: USPT

Nov 3, 1998

US-PAT-NO: 5831052

DOCUMENT-IDENTIFIER: US 5831052 A

TITLE: New human translocation associated protein



48. Document ID: US 5827711 A

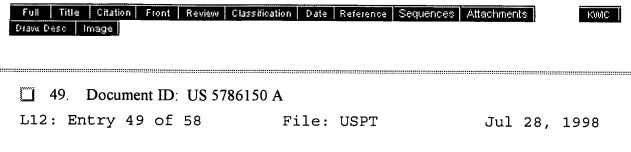
L12: Entry 48 of 58 File: USPT

Oct 27, 1998

US-PAT-NO: 5827711

DOCUMENT-IDENTIFIER: US 5827711 A

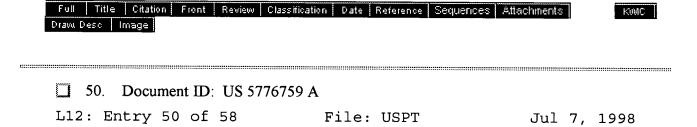
TITLE: Succinate-ubiquinone reductase subunit



US-PAT-NO: 5786150

DOCUMENT-IDENTIFIER: US 5786150 A

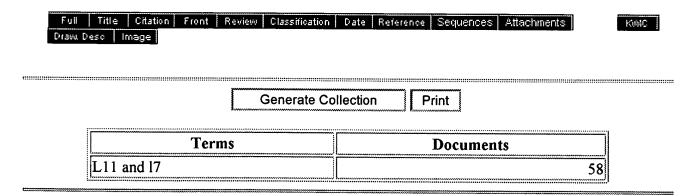
TITLE: F.sub.0 ATP synthase subunit



US-PAT-NO: 5776759

DOCUMENT-IDENTIFIER: US 5776759 A

TITLE: Two novel human cathepsin proteins



Display Format: TI **Change Format** 

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### Search Results - Record(s) 51 through 58 of 58 returned.

51. Document ID: US 5763248 A

L12: Entry 51 of 58

File: USPT

Jun 9, 1998

US-PAT-NO: 5763248

DOCUMENT-IDENTIFIER: US 5763248 A

TITLE: CDNA encoding a human ATP synthase Fo subunit (ASYSD)

Full Title Citation Front Review Classification Date Reference Sequences Attachments Draw, Desc Image

KWAC

52. Document ID: US 5756684 A

L12: Entry 52 of 58 File: USPT

May 26, 1998

US-PAT-NO: 5756684

DOCUMENT-IDENTIFIER: US 5756684 A

TITLE: Cloning and expression of PUR protein

Full Title Citation Front Review Classification Date Reference Sequences Attachments Draw, Desc Image

53. Document ID: US 5738990 A

L12: Entry 53 of 58 File: USPT

Apr 14, 1998

US-PAT-NO: 5738990

DOCUMENT-IDENTIFIER: US 5738990 A

TITLE: Sequence-directed DNA-binding molecules compositions and

methods

Full Title Citation Front Review Classification Date Reference Sequences Attachments Draw, Desc Image

☐ 54. Document ID: US 5714377 A

L12: Entry 54 of 58 File: USPT

Feb 3, 1998

US-PAT-NO: 5714377

DOCUMENT-IDENTIFIER: US 5714377 A

TITLE: Modified fungal cells and method for producing recombinant

products

Full Title Citation Front Review Classification Date Reference Sequences Attachments

Draw Desc Image

55. Document ID: US 5665543 A

L12: Entry 55 of 58

File: USPT

Sep 9, 1997

US-PAT-NO: 5665543

DOCUMENT-IDENTIFIER: US 5665543 A

TITLE: Method of discovering chemicals capable of functioning as

gene expression modulators

Full Title Citation Front Review Classification Date Reference Sequences Attachments

Draw, Desc Image

KOMC

56. Document ID: US 5641660 A

L12: Entry 56 of 58

File: USPT

Jun 24, 1997

US-PAT-NO: 5641660

DOCUMENT-IDENTIFIER: US 5641660 A

TITLE: Glutamicum threonine biosynthetic pathway

Full Title Citation Front Review Classification Date Reference Sequences Attachments
Draw Desc Image

KWIC

57. Document ID: US 5591631 A

L12: Entry 57 of 58

File: USPT

Jan 7, 1997

US-PAT-NO: 5591631

DOCUMENT-IDENTIFIER: US 5591631 A

TITLE: Anthrax toxin fusion proteins, nucleic acid encoding same

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Draw Desc | Image |

KWMC

58. Document ID: US 5554528 A

L12: Entry 58 of 58

File: USPT

Sep 10, 1996

US-PAT-NO: 5554528

DOCUMENT-IDENTIFIER: US 5554528 A

TITLE: Compositions and methods for inhibition of HIV production

Full Title Citation Front Review Classificati	tion Date Reference Sequences Attachments	KWIC
Gonoroto		
<u> </u>	Collection   Print	
Terms	Documents	
L11 and 17	58	

Display Format: TI

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L4

L5

(FILE 'HOME' ENTERED AT 14:06:04 ON 07 MAR 2002) FILE 'HCAPLUS' ENTERED AT 14:07:06 ON 07 MAR 2002 E MIKE17 E TRANSCRIPTION REGULATOR/CT E E2+ALL E TRANSCRIPTIONAL REGULATION/CT E E3+ALL L10 SEA ABB=ON PLU=ON MIKE17 L2 25075 SEA ABB=ON PLU=ON TRANSCRIPTION REGULATOR OR TRANSCRIPTIONAL REGULATION L\*\*\* DEL 458 S CORYNEBACTERIA OR CORYNEBACTERIA GLUTAMICUM E CORYNEBACTERIA/CT E E3+ALL E CORYNEFORM BACTERIA/CT E E3+ALL L3 1160 SEA ABB=ON PLU=ON CORYNEBACTERIA OR CORYNEBACTERIA GLUTAMICUM OR (BACTERIA (L) CORYNEFORM)

2 SEA ABB=ON PLU=ON L4 (L) (DNA OR CDNA OR NUCLEIC ACID OR

7 SEA ABB=ON PLU=ON L2 (L) L3

D IBIB AB 1-7

```
'L4
     ANSWER 1 OF 7 HCAPLUS COPYRIGHT 2002 ACS
ACCESSION NUMBER:
                        2002:123219 HCAPLUS
TITLE:
                        Sequences of Corynebacterium glutamicum gene lysR3
                        encoding transcription regulator and its use in
                        increasing yields of L-lysine and L-valine in
                        fermentation
INVENTOR(S):
                        Moeckel, Bettina; Kreutzer, Caroline
PATENT ASSIGNEE(S):
                        Degussa A.-G., Germany
SOURCE:
                        PCT Int. Appl., 37 pp.
                        CODEN: PIXXD2
DOCUMENT TYPE:
                        Patent
LANGUAGE:
                        English
FAMILY ACC. NUM. COUNT:
PATENT INFORMATION:
     PATENT NO. KIND DATE
     APPLICATION NO. DATE
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     WO 2002012505
                    A1 20020214
                                         WO 2001-EP7765 20010706
        W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN,
             CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH,
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            DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG
                                       DE 2000-10039049 20000810
     DE 10039049
                    A1 20020221
                                       DE 2000-10039049 A 20000810 US 2001-867537 A 20010531
PRIORITY APPLN. INFO.:
     The invention provides sequences of Corynebacterium glutamicum gene lysR3
     that encodes a novel transcription regulator, and its
     uses in increasing the efficiency of fermn. of L-lysine and L-valine in
     coryneform bacteria by attenuation of the lysR3 gene.
     The gene was identified by querying a C. glutamicum sequence database for
     homologs of known lysR3 genes.
REFERENCE COUNT:
                        5
                              THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS
                              RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT
     ANSWER 2 OF 7 HCAPLUS COPYRIGHT 2002 ACS
ACCESSION NUMBER:
                        2002:123218 HCAPLUS
TITLE:
                        Sequences of Corynebacterium glutamicum gene lysR2
                        encoding transcription regulator and its use in
                        increasing yields of L-lysine and L-valine in
                        fermentation
INVENTOR(S):
                        Moeckel, Bettina; Farwick, Mike; Hermann, Thomas;
                        Kreutzer, Caroline; Pfefferle, Walter
PATENT ASSIGNEE(S):
                        Degussa A.-G., Germany
                        PCT Int. Appl., 44 pp.
SOURCE:
                        CODEN: PIXXD2
DOCUMENT TYPE:
                        Patent
LANGUAGE:
                        English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:
    PATENT NO. KIND DATE
                                        APPLICATION NO. DATE
     ______
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    WO 2002012504
                    A1 20020214
                                        WO 2001-EP6808 20010615
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            ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
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RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY,

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DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF,
             BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG
     DE 10110346
                            20020221
                      A1
                                           DE 2001-10110346 20010303
PRIORITY APPLN. INFO.:
                                        DE 2000-10039047 A 20000810
                                        DE 2001-10110346 A 20010303
     The invention provides sequences of Corynebacterium glutamicum gene lysR2
     that encodes a novel transcription regulator, and its
     uses in increasing the efficiency of fermn. of L-lysine and L-valine in
     coryneform bacteria by attenuation of the lysR2 gene.
     The gene was identified by querying a C. glutamicum sequence database for
     homologs of known lysR2 genes.
REFERENCE COUNT:
                               THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS
                         4
                               RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT
     ANSWER 3 OF 7 HCAPLUS COPYRIGHT 2002 ACS
ACCESSION NUMBER:
                         2002:123057 HCAPLUS
                         Sequences of Corynebacterium glutamicum gene lysR1
TITLE:
                         encoding transcription regulator and its use in
                         increasing yields of L-lysine in fermentation
INVENTOR(S):
                         Moeckel, Bettina; Farwick, Mike; Hermann, Thomas;
                         Kreutzer, Caroline; Pfefferle, Walter
PATENT ASSIGNEE(S):
                         Degussa A.-G., Germany
SOURCE:
                         PCT Int. Appl., 38 pp.
                         CODEN: PIXXD2
DOCUMENT TYPE:
                         Patent
LANGUAGE:
                         English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:
     PATENT NO.
                 KIND DATE
                                          APPLICATION NO. DATE
                                          _____
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     WO 2002012295
                     A1 20020214
                                      WO 2001-EP8258 20010718
         W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN,
             CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH,
             GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR,
             LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT,
             RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ,
             VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
         RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY,
             DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF,
             BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG
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                      A1 20020221
                                         DE 2000-10039044 20000810
PRIORITY APPLN. INFO.:
                                       DE 2000-10039044 A 20000810
     The invention provides sequences of Corynebacterium glutamicum gene lysR1
     that encodes a novel transcription regulator, and its
     uses in increasing the efficiency of fermn. of L-lysine in
     coryneform bacteria by attenuation of the lysR1 gene.
     The gene was identified by querying a C. glutamicum sequence database for
     homologs of known lysR1 genes.
                              THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS
REFERENCE COUNT:
                         7
                               RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT
     ANSWER 4 OF 7 HCAPLUS COPYRIGHT 2002 ACS
ACCESSION NUMBER:
                         2002:123053 HCAPLUS
TITLE:
                         Sequences of Corynebacterium glutamicum gene luxR
                         encoding transcription regulator and its use in
                         increasing yields of L-lysine in fermentation
INVENTOR(S):
                        Moeckel, Bettina; Kreutzer, Caroline; Bathe, Brigitte
PATENT ASSIGNEE(S):
                         Degussa A.-G., Germany
SOURCE:
                         PCT Int. Appl., 32 pp.
                        CODEN: PIXXD2
DOCUMENT TYPE:
                         Patent
LANGUAGE:
                         English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:
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PATENT NO. KIND DATE

APPLICATION NO. DATE

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WO 2002012291 A2 20020214 WO 2001-EP8256 20010718
         W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN,
             CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH,
             GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR,
             LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT,
             RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ,
             VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
         RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY,
             DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF,
             BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG
     DE 10039043 A1 20020221
                                         DE 2000-10039043 20000810
PRIORITY APPLN. INFO.:
                                        DE 2000-10039043 A 20000810
     The invention provides sequences of Corynebacterium glutamicum gene luxR
     that encodes a novel transcription regulator, and its
     uses in increasing the efficiency of fermn. of L-lysine in
     coryneform bacteria by attenuation of the luxR gene.
     The gene was identified by querying a C. glutamicum sequence database for
     homologs of known luxR genes.
     ANSWER 5 OF 7 HCAPLUS COPYRIGHT 2002 ACS
ACCESSION NUMBER: 2001:28655 HCAPLUS
DOCUMENT NUMBER:
                        134:99670
TITLE:
                        L-lysine producing coryneform bacteria and methods for
                         the production of 1-lysine
INVENTOR(S):
                         Kreutzer, Caroline; Mockel, Bettina; Pfefferle,
                         Walter; Eggeling, Lothar; Sahm, Hermann; Patek,
                         Miroslav
PATENT ASSIGNEE(S):
                         Degussa-Huels Aktiengesellschaft, Germany;
                         Forschungszentrum Juelich
SOURCE:
                         Eur. Pat. Appl., 28 pp.
                         CODEN: EPXXDW
DOCUMENT TYPE:
                         Patent
LANGUAGE:
                         German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:
     PATENT NO. KIND DATE APPLICATION NO. DATE
     EP 1067193 A1 20010110 EP 2000-114502 20000706
         R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
             IE, SI, LT, LV, FI, RO
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     DE 19931314
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                                       JP 2000-202550 20000704
BR 2000-2445 20000705
CN 2000-120357 20000707
                     A2 20010213
     JP 2001037495
                    A 20010508
A 20010117
     BR 2000002445
                                     CN 2000-12035, 2000
DE 1999-19931314 A 19990707
     CN 1280185
PRIORITY APPLN. INFO.:
     The invention concerns the prodn. of L-amino acids by coryneform bacteria
     strain comprising an enhanced pyc gene (Pyruvat-carboxylase-gene), addnl.
     genes are chosen from the dapA gene group (dihydrodipicolinate synthase gene), lysC gene (aspartate kinase gene), lysE gene (lysine-export-carrier-
     gene), dapB gene (dihydrodipicolinate reductase gene), that are used by one
     or together. The dapA gene was most effective enhancer of L-lysine prodn.
     The following L-lysine strain producers were established: Escherichia coli
     K12 DSM 12871, DSM 12875, and Corynebacterium glutamicum DSM 12869, DSM
     12867, DSM 12868, DSM 12866.
REFERENCE COUNT:
                       4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS
                               RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT
     ANSWER 6 OF 7 HCAPLUS COPYRIGHT 2002 ACS
ACCESSION NUMBER: 1998:180578 HCAPLUS
DOCUMENT NUMBER:
                         128:227076
                        Promoter DNA fragment from Coryneform bacteria with
TITLE:
                         applications for recombinant DNA techniques utilized
                        to examine gene expression
                        Zupancic, Thomas J.; Yukawa, Hideaki
INVENTOR(S):
PATENT ASSIGNEE(S): Mitsubishi Chemical Corp., Japan
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AB

L4

SOURCE: U.S., 40 pp. Cont.-in-part of U.S. Ser. No. 76,091.

CODEN: USXXAM

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 5726299	A	19980310	US 1994-285641	19940801
US 5693781	Α	19971202	US 1993-76091	19930615
PRIORITY APPLN.	INFO.:		US 1991-709151	19910603
			US 1993-76091	19930615

Coryneform bacteria are Gram-pos. bacteria widely used for AB industrial-scale prodn. of a variety of products including amino acids, such as glutamic acid and aspartic acid: and purine nucleotides, such as inosinic acid, etc. However, compared with Escherichia coli, coryneform bacteria have not been extensively bred by using recombinant DNA techniques. To fully utilized the recombinant DNA techniques for breeding of coryneform bacteria, a vector must be developed useful for industrial-scale gene manipulation in coryneform bacterial. More specifically, a promoter having strong gene expression function which may be controlled would be very valuable. Coryneform bacteria promoter DNA fragments are disclosed having greater promoter strength in Coryneform bacteria cells than the tac promoter obtained by fusing Escherichia coli trp promoter and lac promoter. The promoter function of some of the promoter DNA fragments is controllable by replacing at least one of the culture-medium ingredients with at least one other ingredient. The sizes and nucleotide sequences of these promoter DNA fragments are also presented.

ANSWER 7 OF 7 HCAPLUS COPYRIGHT 2002 ACS ACCESSION NUMBER: 1997:776023 HCAPLUS

DOCUMENT NUMBER: 128:71647

TITLE: Promoter DNA fragment from Coryneform bacteria with

applications for recombinant DNA techniques utilized

to examine gene expression

INVENTOR(S): Zupancic, Thomas J.; Yukawa, Hideaki PATENT ASSIGNEE(S):

Mitsubishi Chemical Corp., Japan

SOURCE: U.S., 36 pp. Cont.-in-part of U.S. Ser. No. 709,151,

> abandoned. CODEN: USXXAM

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 5693781	- <b></b>	19971202	US 1993-76091	19930615
EP 629699	A2	19941221	EP 1994-108738	19940607
EP 629699	А3	19960424		2331000,
EP 629699	В1	19981209		
R: BE, DE	, FR, GB	, IT, NL		
EP 803575	A1	19971029	EP 1997-108382	19940607
R: BE, DE,	FR, GB	, IT, NL		
JP 07095891	A2	19950411	JP 1994-127816	19940609
US 5726299	Α	19980310	US 1994-285641	19940801
PRIORITY APPLN. INFO	o.:		US 1991-709151	19910603
			US 1993-76091	19930615
			EP 1994-108738	19940607
7D C C 1				

Coryneform bacteria are Gram-pos. bacteria widely used for AΒ industrial-scale prodn. of a variety of products including amino acids, such as glutamic acid and aspartic acid: and purine nucleotides, such as inosinic acid, etc. However, compared with Escherichia coli, coryneform bacteria have not been extensively bred by using recombinant DNA techniques. To fully utilized the recombinant DNA techniques for breeding .of coryneform bacteria, a vector must be developed useful for industrial-scale gene manipulation in coryneform bacterial. More specifically, a promoter having strong gene expression function which may be controlled would be very valuable. Coryneform bacteria promoter DNA fragments are disclosed having greater promoter strength in Coryneform bacteria cells than the tac promoter obtained by fusing Escherichia coli trp promoter and lac promoter. The promoter function of some of the promoter DNA fragments is controllable by replacing at least one of the culture-medium ingredients with at least one other ingredient. The sizes and nucleotide sequences of these promoter DNA fragments are also presented.

Ĺ5 ANSWER 1 OF 2 HCAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 1998:180578 HCAPLUS

DOCUMENT NUMBER: 128:227076

TITLE: Promoter DNA fragment from Coryneform bacteria with

applications for recombinant DNA techniques utilized

to examine gene expression

Zupancic, Thomas J.; Yukawa, Hideaki INVENTOR(S):

PATENT ASSIGNEE(S): Mitsubishi Chemical Corp., Japan SOURCE:

U.S., 40 pp. Cont.-in-part of U.S. Ser. No. 76,091.

CODEN: USXXAM

DOCUMENT TYPE: Patent

LANGUAGE: English FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 5726299	Α	19980310	US 1994-285641	19940801
US 5693781	Α	19971202	US 1993-76091	19930615
PRIORITY APPLN. INFO	.:		US 1991-709151	19910603
			US 1993-76091	19930615

Coryneform bacteria are Gram-pos. bacteria widely used for AB industrial-scale prodn. of a variety of products including amino acids, such as glutamic acid and aspartic acid: and purine nucleotides, such as inosinic acid, etc. However, compared with Escherichia coli, coryneform bacteria have not been extensively bred by using recombinant DNA techniques. To fully utilized the recombinant DNA techniques for breeding of coryneform bacteria, a vector must be developed useful for industrial-scale gene manipulation in coryneform bacterial. More specifically, a promoter having strong gene expression function which may be controlled would be very valuable. Coryneform bacteria promoter DNA fragments are disclosed having greater promoter strength in Coryneform bacteria cells than the tac promoter obtained by fusing Escherichia coli trp promoter and lac promoter. The promoter function of some of the promoter DNA fragments is controllable by replacing at least one of the culture-medium ingredients with at least one other ingredient. The sizes and nucleotide sequences of these promoter DNA fragments are also presented.

ANSWER 2 OF 2 HCAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 1997:776023 HCAPLUS

DOCUMENT NUMBER: 128:71647

TITLE: Promoter DNA fragment from Coryneform bacteria with

applications for recombinant DNA techniques utilized

to examine gene expression

Zupancic, Thomas J.; Yukawa, Hideaki INVENTOR(S): PATENT ASSIGNEE(S): Mitsubishi Chemical Corp., Japan

SOURCE: U.S., 36 pp. Cont.-in-part of U.S. Ser. No. 709,151,

abandoned.

CODEN: USXXAM DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 5693781	Α	19971202	US 1993-76091	19930615
EP 629699	A2	19941221	EP 1994-108738	19940607
EP 629699	A3	19960424		
EP 629699	В1	19981209		
R: BE, DE,	FR, GB	, IT, NL		
EP 803575	, A1	19971029	EP 1997-108382	19940607
R: BE, DE,	FR, GB	, IT, NL		1331000,
JP 07095891	A2	19950411	JP 1994-127816	19940609

US 5726299 A 19980310 US 1994-285641 19940801
PRIORITY APPLN. INFO::
US 1991-709151 19910603
US 1993-76091 19930615
EP 1994-108738 19940607

AB Coryneform bacteria are Gram-pos. bacteria widely used for industrial-scale prodn. of a variety of products including amino acids, such as glutamic acid and aspartic acid: and purine nucleotides, such as inosinic acid, etc. However, compared with Escherichia coli, coryneform bacteria have not been extensively bred by using recombinant DNA techniques. To fully utilized the recombinant DNA techniques for breeding of coryneform bacteria, a vector must be developed useful for industrial-scale gene manipulation in coryneform bacterial. More specifically, a promoter having strong gene expression function which may be controlled would be very valuable. Coryneform bacteria promoter DNA fragments are disclosed having greater promoter strength in Coryneform bacteria cells than the tac promoter obtained by fusing Escherichia coli trp promoter and lac promoter. The promoter function of some of the promoter DNA fragments is controllable by replacing at least one of the culture-medium ingredients with at least one other ingredient. The sizes and nucleotide sequences of these promoter DNA fragments are also presented.

Alignment No. 1

seg documentation block: A0757887 LOCUS 565 bp DNA GSS 27-JUL-1999 DEFINITION HS 5478 B1 F05 T7A RPCI-11 Human Male BAC Library Homo sapiens genomic clone Plate=1054 Col=9 Row=L, DNA sequence. ACCESSION A0757887 AQ757887.1 GI:5622889 **VERSION** KEYWORDS GSS. SOURCE human. ORGANISM Homo sapiens Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo. REFERENCE (bases 1 to 565) AUTHORS Mahairas, G.G., Wallace, J.C., Smith, K., Swartzell, S., Holzman, T., Keller, A., Shaker, R., Furlong, J., Young, J., Zhao, S., Adams, M.D. and Hood, L. Sequence-tagged connectors: A sequence approach to mapping and TITLE scanning the human genome JOURNAL Proc. Natl. Acad. Sci. U. S. A. 96 (17), 9739-9744 (1999) MEDLINE 99380589 Contact: Mahairas GG, Wallace JC, Hood L COMMENT High Throughput Sequencing Center University of Washington 401 Queen Anne Avenue North, Seattle, WA 98109, USA Tel: (206) 616-3618 Fax: (206) 616-3887 Email: jwallace@u.washington.edu Clones are derived from the human BAC library RPCI-11. For BAC library availability, please contact Pieter de Jong (pieter@dejong.med.buffalo.edu). Clones may be purchased from BACPAC Resources (http://bacpac.med.buffalo.edu/ordering bac.htm) or from Resear h Genetics (info@resgen.com). BAC end Web Server: http://www.htsc.washington.edu Plate: 1054 row: L column: 9 Seq primer: T7 Class: BAC ends High quality sequence stop: 565. **FEATURES** Location/Qualifiers source 1. .565 /organism="Homo sapiens" /db xref="taxon:9606" /clone="Plate=1054 Col=9 Row=L" /clone\_lib="RPCI-11 Human Male BAC Library" /sex="male" /note="Vector: pBACe3.6; Site 1: EcoRI; Site\_2: EcoRI; Male blood DNA was isolated from one randomly chosen donor and partially digested with a combination of EcoRI and EcoRI Methylase. Size selected DNA was cloned into the pBACe3.6 vector at EcoRI sites" BASE COUNT 182 a 147 c 102 g 129 t 5 others ORIGIN

alignment scores:

Quality: 10.00 Length: 10
Ratio: 1.000 Gaps: 0
Percent Similarity: 100.000 Percent Identity: 100.000

alignment\_block: US-09-825-293-2 x AQ757887 ...

Align seg 1/1 to: AQ757887 from: 1 to: 565

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Alignment No. 2

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RESULT
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LOCUS
                     qd 008
          BE636602
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                                                   25-AUG-2000
         rockefeller.0.211 Mastigamoeba balamuthi lambda ZAP II Library
DEFINITION
          Mastigamoeba balamuthi cDNA similar to cytosolic NADP+-dependent
          isocitrate dehydrogenase, mRNA sequence.
ACCESSION
          BE636602
VERSION
          BE636602.1 GI:9919713
KEYWORDS
          EST.
SOURCE
          Mastigamoeba balamuthi.
 ORGANISM Mastigamoeba balamuthi
          Eukaryota; Mastigamoeba.
REFERENCE
          1 (bases 1 to 800)
 AUTHORS
         Lee, J.A., Moore, D.V., Gordon, P., Sensen, C.W., Gaasterland, T. and
          Muller, M.
 TITLE
          cDNA clones (expressed sequence tags) from the free-living
          amitochondriate amoeboflagellate, Mastigamoeba balamuthi
 JOURNAL
          Unpublished (2000)
          Contact: Muller Miklos
COMMENT
          Laboratory of Biochemical Parasitology
          The Rockefeller University
          1230 York Avenue, New York, NY 10021, USA
          Email: mmuller@rockvax.rockefeller.edu
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 Best Local Similarity
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Qу
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Qу
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Qу
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Db	210	CACCAACCCCCCTTCCTCTTCATCATCTACCCCACCATCTCCTC	151
Qу	1241	cttcgtgcgcgtcgaccgcgcggcaacatgtccaaacgccaatccgccaccggcttcca	1300
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Qу	1361	cggccaagtgctccgc 1376	
Db	30	CCCCTCCTTCTCCCC 15	

Alignment No. 1

seq documentation block: A0757887 565 bp LOCUS DNA GSS 27-JUL-1999 HS 5478 B1 F05 T7A RPCI-11 Human Male BAC Library Homo sapiens DEFINITION genomic clone Plate=1054 Col=9 Row=L, DNA sequence. ACCESSION A0757887 **VERSION** AQ757887.1 GI:5622889 **KEYWORDS** GSS. SOURCE human. Homo sapiens ORGANISM Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo. REFERENCE (bases 1 to 565) Mahairas, G.G., Wallace, J.C., Smith, K., Swartzell, S., Holzman, T., AUTHORS Keller, A., Shaker, R., Furlong, J., Young, J., Zhao, S., Adams, M.D. and Hood, L. TITLE Sequence-tagged connectors: A sequence approach to mapping and scanning the human genome JOURNAL Proc. Natl. Acad. Sci. U. S. A. 96 (17), 9739-9744 (1999) MEDLINE 99380589 COMMENT Contact: Mahairas GG, Wallace JC, Hood L High Throughput Sequencing Center . ; University of Washington 401 Queen Anne Avenue North, Seattle, WA 98109, USA Tel: (206) 616-3618 Fax: (206) 616-3887 Email: jwallace@u.washington.edu Clones are derived from the human BAC library RPCI-11. For BAC library availability, please contact Pieter de Jong (pieter@dejong.med.buffalo.edu). Clones may be purchased from BACPAC Resources (http://bacpac.med.buffalo.edu/ordering bac.htm) or from Resear h Genetics (info@resgen.com). BAC end Web Server: http://www.htsc.washington.edu Plate: 1054 row: L column: 9 Seg primer: T7 Class: BAC ends High quality sequence stop: 565. **FEATURES** Location/Qualifiers 1. .565 source /organism="Homo sapiens" /db xref="taxon:9606" /clone="Plate=1054 Col=9 Row=L" /clone lib="RPCI-11 Human Male BAC Library" /sex="male" /note="Vector: pBACe3.6; Site 1: EcoRI; Site 2: EcoRI; Male blood DNA was isolated from one randomly chosen donor and partially digested with a combination of EcoRI and EcoRI Methylase. Size selected DNA was cloned into the pBACe3.6 vector at EcoRI sites" BASE COUNT 182 a 147 c 102 g 129 t 5 others ORIGIN alignment scores: Quality: 10.00 Length: 10 Ratio: 1.000 Gaps:

Percent Identity: 100.000

Percent Similarity: 100.000

alignment\_block: US-09-825-293-2 x AQ757887 ...

Align seg 1/1 to: AQ757887 from: 1 to: 565

310 GluThrThrAlaHisArgLeuSerThrLeu 319

276 GAGACGACTGCACACAGATTGAGCACTCTA 305

Alignment No. 2

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                                         EST
                                                 25-AUG-2000
         rockefeller.0.211 Mastigamoeba balamuthi lambda ZAP II Library
DEFINITION
         Mastigamoeba balamuthi cDNA similar to cytosolic NADP+-dependent
         isocitrate dehydrogenase, mRNA sequence.
ACCESSION
         BE636602
VERSION
         BE636602.1 GI:9919713
KEYWORDS
         EST.
SOURCE
         Mastigamoeba balamuthi.
 ORGANISM Mastigamoeba balamuthi
         Eukaryota; Mastigamoeba.
REFERENCE
            (bases 1 to 800)
 AUTHORS
         Lee, J.A., Moore, D.V., Gordon, P., Sensen, C.W., Gaasterland, T. and
         Muller, M.
 TITLE
         cDNA clones (expressed sequence tags) from the free-living
         amitochondriate amoeboflagellate, Mastigamoeba balamuthi
 JOURNAL
         Unpublished (2000)
COMMENT
         Contact: Muller Miklos
         Laboratory of Biochemical Parasitology
         The Rockefeller University
         1230 York Avenue, New York, NY 10021, USA
         Email: mmuller@rockvax.rockefeller.edu
         Insert Length: 800
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BASE COUNT
            174 a
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ORIGIN
 Query Match
                     3.0%;
                           Score 57.6; DB 10;
                                           Length 800;
 Best Local Similarity 44.8%; Pred. No. 0.0067;
 Matches 222; Conservative
                          0; Mismatches 274;
                                           Indels
                                                   0;
                                                      Gaps
                                                             0;
Qу
    1 | | | | | | |
                      11 \mid 1 \mid
                              Db
    941 cgggcaacgcgccttccgcatggccaccgaactcggctacctagaagccaacgacctcat 1000
Qу
           -11111
                               Db
    1001 cgaaggtatcgttgacgacggcatctggtccacccccgaagcccgcaccctagccatccg 1060
Qу
                   -11 11
    Db
Qу
    1061 cggtgtggcctcctacttcgccgccgctgatgctgccctacaaaatcttccactccga 1120
              11 11
                                            111 11 1 11 1
Db
    Qу
    1121 ggccgaaaaatccggctacgacatcgagtacctaggccaactctttggcgtgggctatga 1180
```

Db	270	CCCCTACCCCCACCCACCCCCCCCCCCCCCCCCCCCCCC	211
Qу	1181	gacaaccgcccaccgcttgtccaccctgcagcgccccaacctgcgcggcatcccctttac	1240
Db	210	CACCAACCCCCCTTCCTCTTCATCATCTACCCCACCATCTCCTC	151
Qу	1241	cttcgtgcgcgtcgaccgccggcaacatgtccaaacgccaatccgccaccggcttcca	1300
Db	150	CTACTACATCCCCCCCCTTCAACTCCCCCACCTACTCCTTCTCCTACACCTCCT	91
QУ	1301	cttcacccactacggcggcacctgcccctgtggaacgtgtttgaaaccttcaccaaccc	1360
Db	90	CATCCTCTTCAACCTCCCCACCACCACCACCCACCCACC	31
Qу	1361	cggccaagtgctccgc 1376	
Db	30	CCCCTCCTTCTCCCC 15	